

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/23689

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 11/36

US CL : 712/227

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 712/227; 714/25,38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST, IEEE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                      | Relevant to claim No. |
|------------|---|-----------------------|
| X          | US 5,740,449 (Densham et al) 14 April 1998 (14.04.1998), column 14, lines 11-61, abstract, Fig.1,2,7,10 | 1-12, 14-16           |
| A          | US 5,295,260 (Pribnow) 15 March 1994 (15.03.1994), abstract, column 10, lines 18-46                     | 1-12, 14-16           |
| A          | US 4,755,997 (Takahashi) 5 July 1988 (5.07.1988)  | 1-12, 14-16           |

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Further documents are listed in the continuation of Box C.

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See patent family annex.

|  |   |     |  |
|--|---|-----|--|
| * Special categories of cited documents: |   | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
| "A"                                      | document defining the general state of the art which is not considered to be of particular relevance  | "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |
| "E"                                      | earlier application or patent published on or after the international filing date   | "Y" | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L"                                      | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" | document member of the same patent family  |
| "O"                                      | document referring to an oral disclosure, use, exhibition or other means  |     |  |
| "P"                                      | document published prior to the international filing date but later than the priority date claimed  |     |  |

Date of the actual completion of the international search

10 March 2005 (10.03.2005)

Date of mailing of the international search report

27 APR 2005

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### Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:  
Please See Continuation Sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-12 and 14-16

Remark on Protest

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☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

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### BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

- I. Claims 1-12 and 14-16, drawn to a debugging system including a fast response monitoring circuit which writes data to a file.
- II. Claim 13, drawn to a computer-readable evidence file.
- III. Claim 17, drawn to an automated method of examining an evidence file including identifying if a branch instruction failed to execute.
- IV. Claim 18, drawn to a method of generating an evidence file.

There is a lack of unity between the aforementioned groups because each of the groups, taken as a whole, defines a unique "special technical feature". That is, a debugging circuit for writing to an evidence file, the evidence file itself, examining an evidence file, and generating an evidence file are different technical features.